

CLAIMS:

What is claimed is:

1. A process of manufacturing a blow molded article comprising:
 - (a) blow molding a first composition comprising a first polyethylene into a shaped article;
 - (b) perceiving parison cuffing defects in said process or said blow molded article;
 - (c) then selecting at least one of the following in response to step (b):
 - (i) providing to said process a second polyethylene having a lower melt index than said first polyethylene, measured according to ASTM D-1238;
 - (ii) providing to said process a small amount of a low molecular weight polyethylene glycol;whereby a second composition is blow molded into an article.
2. The process according to Claim 1, wherein step (c) comprises providing a second polyethylene having a lower melt index than said first polyethylene and having incorporated therein a small amount of a low molecular weight polyethylene glycol.
3. The process according to Claim 1, wherein the amount of polyethylene glycol provided to said process is from about 400 ppm to about 2000 ppm based on the weight of said second composition.
4. The process according to Claim 1, wherein the amount of polyethylene glycol added is from about 400 ppm to about 1200 ppm based on the weight of the second composition.

5. The process according to Claim 4, wherein the amount of polyethylene glycol added to the composition is no more than about 1100 ppm based on the weight of said second composition.
6. The process according to Claim 4, wherein the amount of polyethylene glycol added is no more than about 800 ppm, based on the weight of said second composition.
7. The process according to Claim 4, wherein the amount of polyethylene glycol added is more than about 700 ppm, based on the weight of said second composition.
8. The process according to Claim 1, wherein the polyethylene glycol has a molecular weight of from about 300 to about 500.
9. The process according to Claim 1, wherein step (c) further comprises selecting a least one second polyethylene from HDPE homopolymers having a melt index of from about 0.25 to about 0.80 grams/10 minutes measured according to ASTM D-1238.
10. The process according to Claim 1, wherein step (c) further comprises selecting at least one second polyethylene from HDPE homopolymers having a melt index of from about 0.25 to about 0.80 grams/10 minutes measured according to ASTM D-1238, and having incorporated therein a small amount of a low molecular weight polyethylene glycol and an effective amount of an antioxidant selected from IRGANOXTM 1010 and IRGANOXTM 1076.
11. A method of reducing cuffing in the blow molding of a composition comprising HDPE, said method comprising incorporating a small amount of a low molecular weight polyethylene glycol in said composition prior to

blow molding to provide a new composition and then blow molding said new composition.

12. The method according to Claim 11, wherein said polyethylene glycol is present in the amount of from about 400 ppm to about 1200 ppm based on the weight of the composition
13. The method according to Claim 11, wherein said new composition does not contain a fluorocarbon polymer, phosphite or stearate.
14. The method according to Claim 11, wherein said new composition further comprises an antioxidant selected from hindered phenolics.
15. The method according to Claim 11, wherein said new composition consists essentially of HDPE, polyethylene glycol, and an antioxidant selected from hindered phenolics.
16. The method according to Claim 11, wherein said polyethylene glycol is PEG-400.
17. The method according to Claim 11, wherein said new composition comprises HDPE homopolymer having a melt index range of from about 0.25 to about 0.85 grams/10 minutes according to ASTM D-1238.
18. The method according to Claim 11, comprising the steps of:
 - a. providing a first HDPE having a first melt index in a blow molding process and blow molding said first HDPE into an article;
 - b. detecting unacceptable cuffing in said process;

- c. transitioning from said first HDPE in said process to a composition comprising a second HDPE having a second melt index and having incorporated therein a small amount of a low molecular weight polyethylene glycol, wherein said second melt index is lower than said first melt index, measured according to ASTM D-1238;
 - d. blow molding the composition comprising said second HDPE into an article.
- 19. The method according to Claim 18, wherein said second HDPE has a melt index of from about 0.25 to about 0.80 grams/10 minutes measured according to ASTM D-1238.